

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of the claims in this application:

Listing of Claims:

1. (currently amended) A pump comprising:

a pump housing defining a tube set receiving portion constructed to receive a length of tube therein;

a blade having a leading portion having a length and a width, said length being greater than said width, ~~said length being between about 2 cm and about 12 cm~~, said leading portion constructed to engage, along said length and width thereof, a length of tube disposed in said tube set receiving portion, said blade mounted for reciprocating movement between a first position and a second position, said leading portion of said blade configured to compress along its length a length of tube disposed in said tube set receiving portion when said blade is in said first position, said leading portion of said blade configured not to compress a length of tube disposed in said tube set receiving portion when said blade is in said second position; and

a reciprocator constructed to move said blade between said first position and said second position;

wherein said tube set receiving portion opposite said blade defines an engagement surface constructed to engage a portion of an exterior surface of a length of tube disposed in said tube set receiving portion, said engagement surface constructed to inhibit movement of a length of tube disposed in said tube set receiving portion when said blade is moved from said second position to said first position;

wherein said engagement surface defined by said tube set receiving portion is arcuate in cross-section, and wherein said engagement surface is constructed to engage at least 120° of a circumferential exterior surface of a length of tube disposed in said tube set receiving portion.

2. (currently amended) A pump in accordance with Claim 1, further comprising a first occlusion member constructed to compress a tube disposed in said tube set receiving portion at a position upstream of said blade, said first occlusion member mounted for reciprocating movement between a first position and a second position, said first occlusion member permitting flow through a tube disposed in said tube set receiving portion when said first occlusion member is in said second position, and said first occlusion member compressing a tube disposed in said tube set receiving portion when said first ~~valve~~occlusion member is in said second position.

3. (original) A pump in accordance with Claim 1, further comprising a second occlusion member constructed to compress a tube disposed in said tube set receiving portion at a position downstream of said blade, said second occlusion member mounted for reciprocating movement between a first position and a second position, said second occlusion member permitting flow through a tube disposed in said tube set receiving portion when said second occlusion member is in said second position, and said second occlusion member compressing a tube disposed in said tube set receiving portion when said second occlusion member is in said first position.

4. (currently amended) A pump in accordance with ~~Claim 3~~Claim 31 further comprising a first occlusion member constructed to compress a tube disposed in said tube set receiving portion at a position upstream of said blade, said first occlusion member mounted for reciprocating movement between a first position and a second position, said first occlusion member permitting flow through a tube disposed in said tube set receiving portion when said second occlusion member is in said second position, and said first occlusion member compressing a tube disposed in said tube set receiving portion when said first occlusion member is in said first position, said pump still further comprising a second occlusion member constructed to compress a tube disposed in said tube set receiving portion at a position downstream of said blade, said second occlusion member mounted for reciprocating movement between a first position and a second position, said second occlusion member permitting flow through a tube disposed in said tube set receiving portion when said second occlusion member is in said second position, and said second occlusion member compressing a tube disposed in said tube set receiving portion when said second occlusion member is in said first position, and wherein said reciprocator is constructed to move said first occlusion member between said first and second positions thereof, and wherein said reciprocator is constructed to move said second occlusion member between said first and second positions thereof.

5. (original) A pump in accordance with Claim 4, wherein said reciprocator is constructed to move said blade from said second position thereof to said first position thereof when said second occlusion member is in said second position thereof.

6. (currently amended) A ~~pumping mechanism~~ in accordance with Claim 4, wherein said reciprocator is constructed to move said blade from said second position thereof to said first position thereof when said first occlusion member is in said ~~second~~first position thereof.

7-10 (canceled)

11. (currently amended) A pump comprising:

a pump housing defining a tube set receiving portion constructed to receive a length of tube therein;

a blade having a leading portion having a length and a width, said length being greater than said width, ~~said length being between about 2 cm and about 12 cm~~, said leading portion constructed to engage, along said length and width thereof, a length of tube disposed in said tube set receiving portion, said blade mounted for reciprocating movement between a first position and a second position, said leading portion of said blade configured to compress along its length a length of tube disposed in said tube set receiving portion when said blade is in said first position, said leading portion of said blade configured not to compress a length of tube disposed in said tube set receiving portion when said blade is in said second position;

a first occlusion member constructed to compress a tube disposed in said tube set receiving portion at a position upstream of said blade, said first occlusion member mounted for reciprocating movement between a first position and a second position, said first occlusion member permitting flow through a tube disposed in said tube set receiving portion when said second occlusion member is in said second position, and said first occlusion member compressing a tube disposed in said tube set receiving portion when said first occlusion member is in said first position;

a second occlusion member constructed to compress a tube disposed in said tube set receiving portion at a position downstream of said blade, said second occlusion member

mounted for reciprocating movement between a first position and a second position, said second occlusion member permitting flow through a tube disposed in said tube set receiving portion when said second occlusion member is in said second position, and said second occlusion member compressing a tube disposed in said tube set receiving portion when said second occlusion member is in said first position; and

a reciprocator constructed to move selectively said blade, said first occlusion member, and said second occlusion member between said first positions and said second positions thereof;

wherein said tube set receiving portion defines opposite said blade an engagement surface constructed to engage a portion of an exterior surface of a length of tube disposed in said tube set receiving portion, said engagement surface constructed to inhibit movement of a length of tube disposed in said tube set receiving portion when said blade is moved from said second position to said first position;

wherein said engagement surface defined by said tube set receiving portion is arcuate in cross-section, and wherein said engagement surface is constructed to engage at least 120° of a circumferential exterior surface of a length of tube disposed in said tube set receiving portion.

12-20 (canceled)

21. (new) A pump in accordance with Claim 1, wherein the pump housing includes a door hingedly attached to the pump housing, and wherein the engagement surface is a groove in the door constructed to engage at least 120° and not more than 180° of a circumferential exterior surface of a length of tube disposed in said tube set receiving portion.

22. (new) A pump in accordance with Claim 11, wherein the pump housing includes a door hingedly attached to the pump housing, and wherein the engagement surface is a groove in the door constructed to engage at least 120° and not more than 180° of a circumferential exterior surface of a length of tube disposed in said tube set receiving portion.